Habitat Assessment Worksheet - Part III of III

Part III - Habitat Quality Index

| Habitat Parameter | Scoring Category | | | | |
|--|---|--|---|---|--|
| Available Instream Cover | Abundant >50% of substrate favorable for colonization and fish cover; good mix of several stable (not new fall or transient) cover types such as snags, cobble, undercut banks, macrophytes | Common 30-50% of substrate supports stable habitat; adequate habitat for maintenance of populations; may be limited in the number of different habitat types | Rare 10-29.9% of substrate supports stable habitat; habitat availability less than desirable; substrate frequently disturbed or removed | Absent <10% of substrate supports stable habitat; lack of habitat is obvious; substrate unstable or lacking | |
| Score | 4 | 3 | 2 | 1 | |
| Bottom Substrate Stability | Stable >50% gravel or larger substrate; gravel, cobble, boulders; dominant substrate type is gravel or larger | Moderately Stable 30-50% gravel or larger substrate; dominant substrate type is mix of gravel with some finer sediments | Moderately Unstable 10-29.9% gravel or larger substrate; dominant substrate type is finer than gravel, but may still be a mix of sizes | Unstable <10% gravel or larger substrate; substrate is uniform sand, silt, clay or bedrock | |
| Score | 4 | 3 | 2 | 1 | |
| Number of Riffles To be counted, riffles must extend >50% the width of the channel and be at least as long as the channel width | Abundant > 5 riffles | Common 2-4 riffles | Rare 1 riffle | Absent No riffles | |
| Score | 4 | 3 | 2 | 1 | |
| Dimensions of Largest Pool | Large Pool covers more than 50% of the channel width; maximum depth is >1 meter | Moderate Pool covers approximately 50% or slightly less of the channel width; maximum depth is 0.5-1 meter | Small Pool covers approximately 25% of the channel width; maximum depth is <0.5 meter | Absent No existing pools; only shallow auxiliary pockets | |
| Score | 4 | 3 | 2 | 1 | |
| Channel Flow Status | High Water reaches the base of both lower banks; < 5% of channel substrate is exposed | Moderate Water fills >75% of the channel; or <25% of channel substrate is exposed | Low Water fills 25-75% of the available channel and/or riffle substrates are mostly exposed | No Flow Very little water in the channel and mostly present in standing pools; or stream is dry | |
| Score | 3 | 2 | 1 | 0 | |

Part III - Habitat Quality Index (continued)

| Habitat Parameter | Scoring Category | | | | |
|-------------------------------|--|--|---|--|--|
| Bank Stability | Stable Little evidence (<10%) of erosion or bank failure; bank angles average <30° | Moderately Stable Some evidence (10- 29.9%) of erosion or bank failure; small areas of erosion mostly healed over; bank angles average 30-39.9° | Moderately Unstable Evidence of erosion or bank failure is common (30-50%); high potential of erosion during flooding; bank angles average 40-60° | Unstable Large and frequent evidence (>50%) of erosion or bank failure; raw areas frequent along steep banks; bank angles average >60° | |
| Score | 3 | 2 | 1 | 0 | |
| Channel Sinuosity | High ≥ 2 well-defined bends with deep outside areas (cut banks) and shallow inside areas (point bars) present | Moderate 1 well-defined bend or > 3 moderately- defined bends present | Low <3 moderately- defined bends or only poorly-defined bends present | None Straight channel; may be channelized | |
| Score | 3 | 2 | 1 | 0 | |
| Riparian Buffer Vegetation | Extensive Width of natural buffer is >20 meters | Wide Width of natural buffer is 10.1-20 meters | Moderate Width of natural buffer is 5-10 meters | Narrow Width of natural buffer is <5 meters | |
| Score | 3 | 2 | 1 | 0 | |
| Aesthetics of Reach | Wilderness Outstanding natural beauty; usually wooded or unpastured area; water clarity is usually exceptional | Natural Area Trees and/or native vegetation are common; some development evident (from fields, pastures, dwellings); water clarity may be slightly turbid | Common Setting Not offensive; area is developed, but uncluttered such as in an urban park; water clarity may be turbid or discolored | Offensive Stream does not enhance the aesthetics of the area; cluttered; highly developed; may be a dumping area; water clarity is usually turbid or | |
| | | turbia | | discolored | |

| Total | Score | | |
|-------|-------|--|--|
| | | | |

HABITAT QUALITY INDEX

26 - 31 Exceptional

20 - 25 **High**

14 - 19 Intermediate

≤ 13 Limited